

10/512016 #2

DT01 Rec'd PCT/PTO 19 OCT 2004

U.S.P.S. EXPRESS MAIL "POST OFFICE TO ADDRESSEE" SERVICE  
DEPOSIT INFORMATION

Express Mail Label No.: EV 327175278 US

Date of Deposit October 19, 2004

Our Case No.: 10808/163

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

BARTH, Han-Joachim, et al.

Serial No.: not assigned

Filing Date: October 19, 2004

For: METHOD FOR FABRICATING  
THIN METAL-CONTAINING  
LAYERS HAVING LOW  
ELECTRICAL RESISTANCE

Examiner: not assigned

Group Art Unit No.: not assigned

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Alexandria, VA 22313-1450

Dear Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed below and on the attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

The references now cited are the following:

10/512016  
 DT01 Rec'd PCT/PTC 19 OCT 2004

## U.S. PATENT DOCUMENTS

DOCUMENT NUMBER <small>Number/Kind Code (if known)</small>	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
3,585,088	6/15/1971	Schwutke, et al.	148/174	10/18/1968
4,758,533	7/19/1988	Magee, et al.	437/173	9/22/1987
5,290,731	3/1/1994	Sugano, et al.	437/174	3/9/1992
5,405,804	4/11/1995	Yabe	437/773	1/21/1994
US 6,242,808 B1	6/5/2001	Shimizu, et al.	257/762	10/7/1998

## FOREIGN PATENT DOCUMENTS

DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES OR NO
6/16/1987	EPO	H01L 21/20	No
6/26/1991	EPO	H01L 23/532	No
9/28/1992	Japan	H01L 21/3205	No
8/6/1999	Japan	H01L 21/3205	Yes
3/1/2000	EPO	H01L 21/768	No

## OTHER ART - NON PATENT LITERATURE DOCUMENTS

Jiang, Qing-Tang, Tsai, Ming-Hsing and Havemann, R.H., "Line Width Dependence of Copper Resistivity," Proceedings of the 2001 International Interconnect Technology Conf., page 227 (3 pages)
International Search Report for counterpart international application number PCT/DE03/01205 (5 pages).

In accordance with 37 C.F.R. § 1.97(g),(h), this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

This Information Disclosure Statement is being filed prior to the receipt of the first Official Action reflecting an examination on the merits and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these material, the Commissioner is hereby authorized to deduct said fees from Brinks

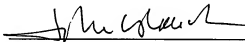
10/512016  
DT01 Rec'd PCT/PT 19 OCT 2004

Hofer Gilson & Lione Deposit Account No. 23-1925. A duplicate copy of this document is enclosed.

In accordance with 37 C.F.R. § 1.97(e)(1), Applicant(s) hereby certify that each item of the information disclosed in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to filing of the present statement, as evidenced by the date of the enclosed search report.

Applicant(s) respectfully request that the listed documents be made of record in the present case.

Respectfully submitted,

  
\_\_\_\_\_  
John G. Rauch  
Registration No. 37,218  
Attorney for Applicant(s)


BRINKS HOFER GILSON & LIONE  
P.O. Box 10395  
Chicago, IL 60610  
(312) 321-4200

FORM PTO-1449	SERIAL NO. not assigned	CASE NO. 10808/163
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	FILING DATE October 19, 2004	GROUP ART UNIT not assigned
(use several sheets if necessary)	APPLICANT(S): BARTH, Hans-Joachim, et al.	

REFERENCE DESIGNATION	U.S. PATENT DOCUMENTS
1	1,200,000
2	1,200,000
3	1,200,000
4	1,200,000
5	1,200,000
6	1,200,000
7	1,200,000
8	1,200,000
9	1,200,000
10	1,200,000
11	1,200,000
12	1,200,000
13	1,200,000
14	1,200,000
15	1,200,000
16	1,200,000
17	1,200,000
18	1,200,000
19	1,200,000
20	1,200,000
21	1,200,000
22	1,200,000
23	1,200,000
24	1,200,000
25	1,200,000
26	1,200,000
27	1,200,000
28	1,200,000
29	1,200,000
30	1,200,000
31	1,200,000
32	1,200,000
33	1,200,000
34	1,200,000
35	1,200,000
36	1,200,000
37	1,200,000
38	1,200,000
39	1,200,000
40	1,200,000
41	1,200,000
42	1,200,000
43	1,200,000
44	1,200,000
45	1,200,000
46	1,200,000
47	1,200,000
48	1,200,000
49	1,200,000
50	1,200,000
51	1,200,000
52	1,200,000
53	1,200,000
54	1,200,000
55	1,200,000
56	1,200,000
57	1,200,000
58	1,200,000
59	1,200,000
60	1,200,000
61	1,200,000
62	1,200,000
63	1,200,000
64	1,200,000
65	1,200,000
66	1,200,000
67	1,200,000
68	1,200,000
69	1,200,000
70	1,200,000
71	1,200,000
72	1,200,000
73	1,200,000
74	1,200,000
75	1,200,000
76	1,200,000
77	1,200,000
78	1,200,000
79	1,200,000
80	1,200,000
81	1,200,000
82	1,200,000
83	1,200,000
84	1,200,000
85	1,200,000
86	1,200,000
87	1,200,000
88	1,200,000
89	1,200,000
90	1,200,000
91	1,200,000
92	1,200,000
93	1,200,000
94	1,200,000
95	1,200,000
96	1,200,000
97	1,200,000
98	1,200,000
99	1,200,000
100	1,200,000

[illegible]

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER <small>Number/Kind Code (if known)</small>		DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES OR NO
 [V.V.]	A6	0 225 592 A2	6/16/1987	EPO	H01L 21/20	No
	A7	0 434 138 A1	6/26/1991	EPO	H01L 23/532	No
	A8	0427 1125 A	9/28/1992	Japan	H01L 21/3205	No
	A9	11214387 A	8/6/1999	Japan	H01L 21/3205	Yes
	A10	0 982 771 B1	3/1/2000	EPO	H01L 21/768	No.

EXAMINER	OTHER ART - NON PATENT LITERATURE DOCUMENTS
----------	---

(Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.

N.V.J	A11	Jiang, Qing-Tang, Tsai, Ming-Hsing and Havemann, R.H., "Line Width Dependence of Copper Resistivity," Proceedings of the 2001 International Interconnect Technology Conf., page 227 (3 pages)
	A12	<del>International Search Report for counterpart international application number PCT/DE99/01205 (5 pages)</del>

EXAMINER /Vanessa Velasquez/	DATE CONSIDERED 01/02/2008
------------------------------	----------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.